Abstract

The invention concerns a cylinder for twin-screw extruder, where the cylinder (1) surrounds a twin screw of the extruder, forming an extrusion space (2) and is in turn surrounded by a hollow-cylinder mantle (10), which has a smooth inner surface, where on the outside of the cylinder (1) at least one channel (3) is made in the shape of a screw line in the longitudinal direction of the cylinder (1), which can be connected to an intake and outlet (12, 13) for a tempering medium that is capable of flowing, and can be closed, at least over part of the circumference of the cylinder (1), in the radial direction by the hollow-cylinder mantle (10). In this case, at least one channel (3) is made in the cylinder (1)by a winding-vortex process and the channel(s) (3) [are] closed by the hollow-cylinder mantle (10). The cycle depth of the channel(s) (3) in the radial direction changes over the circumference of the cylinder (1) in such a way that it is greatest in regions where the original wall thickness of the cylinder (1) is greatest, and that it is smallest in the regions where the original wall thickness of the cylinder (1) is also smallest.

Figure 1 attached.